

**MINISTRY OF SCIENCE AND EDUCATION OF
THE REPUBLIC OF AZERBAIJAN
INSTITUTE OF BOTANY**

**Materials of International
Scientific-Practical Conference
“MODERN APPROACHES
IN THE STUDY OF THE PLANT
KINGDOM”
dedicated to the Year of Heydar Aliyev**

Baku-2023

**RARE AND ENDANGERED SPECIES OF THE ROSACEAE JUSS.
FAMILY DISTRIBUTED IN THE FLORA OF NAKHCHIVAN
AUTONOMOUS REPUBLIC**

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Based on the results of multi-year research studies conducted during 2004-2021 years and literature data, it was determined that 3021 species of high-spores, gymnosperm and angiosperm plants, grouped into 160 families and 910 genera were identified in the flora of the Nakhchivan Autonomous Republic, of these, 160 species belonging to 30 genera are distributed in the rose family (*Rosaceae* Juss.).

In recent times, as a result of drastic changes in environmental conditions and the influence of anthropogenic factors in the territory of the Autonomous Republic, along with other plants in nature, a number of valuable species that make up the gene pool of this family, are in danger of extinction.

As a result of the analysis, taking into account that 34 species belonging to 11 genera belonging to the rose family (*Rosaceae* Juss.) are rare and endangered, their distribution zones were specified, maps were drawn up, reasons for their extinction were clarified and their protection status was determined.

Ways of protection and restoration of rare and endangered species are defined according to IUCN "Red Data Book" categories, Red Book of Azerbaijan and Nakhchivan Autonomous Republic.

As a result of the research, it became clear that 19 species - *Amelanchier ovalis* Medik. (VU B1a(i)c(ii); C2a(i)), *Cotoneaster integerrimus* Medik. (VU B1a(i)c(ii); C2a(i)), *Crataegus orientalis* Pall. ex Bieb. (NT), *C. pontica* C.Koch (NT), *Padellus mahaleb* (L.) Vass. (LR), *Pyrus medvedevii* Rubtz. (NT), *P. megrica* Gladkova (VU B1a(i)c(ii); C2a(i)), *P. raddeana* Woronow (VU B1a(i)c(ii); C2a(i)), *P. syriaca* Boiss. (NT), *P. voronovii* Rubtz. (VU B1a(i)c(ii); C2a(i)), *P. zangezura* Maleev (VU B1a(i)c(ii); C2a(i)), *Rosa foetida bicolor* Herrm. (EN A2acd; B1b(iii, iv)c(ii, iii)), *R. karjaginii* Sosn. (CR A3c; C2a(i)), *R. nisami* Sosn. (EN B2ac(iii)), *R. sosnovskyana* Tamamsch. (VU A2cd; B1b(iii)c(ii)), *R. rapinii* Boiss. et Bal. (VU D1), *R. pimpinellifolia* L. (EN

B2ac(iii)), *R. tuschetica* Boiss. (VU B1b(iii,iv)c(ii)), *Rubus ibericus* Juz. (NT) were included in the Red Book of Nakhchivan Autonomous Republic, 22 species - *Rosa azerbaijdzhanica* Novopokr. & Rzazade (EN B1ab(i,iii)+2b(ii,iii,v)), *R. karjaginii* Sosn. (NT), *R. nisami* Sosn. (NT), *R. rapinii* Boiss. & Balansa (VU D1), *R. sosnovskyi* Chrshan. (EN B2ab(ii,iii,iv,v)), *R. zangezura* P.Jar. (VU B1ab(ii)+2ab(ii,iii,iv)), *Potentilla agrimonoides* M.Bieb.(NT), *P. crantzii* (Crantz) Fritsch (NT), *Geum rivale* L. (VU B2ab(ii,iii,v)), *Sorbus persica* Hedl. (VU B1ab(ii,iii)+2ab(iii)), *S. roopiana* Bordz. (CR B2b(ii,iii)), *S. subfusca* Boiss. (VU D2), *Pyrus georgica* Kuthath. (NT), *P. medvedevii* Rubtz. (NT), *P. raddeana* Woronow (VU B1ac(ii); C2a(i)), *P. salicifolia* Balb. (NT), *P. voronovii* Rubtz. (VU B1ac(ii); C2a(i)), *Cotoneaster saxatilis* Pojark. (VU D2), *Crataegus pontica* K.Koch (EN A1abc; B2ab(i,ii)), *Prunus microcarpa* C.A.Mey. [= *Cerasus microcarpa* (C.A.Mey.) K.Koch] (VU B1ab(i,iii)), *P. nachichevanica* Kudr. (NT), *P. padus* L. [= *Padus avium* Mill.] (EN B2b(ii,iii,v)) - III edition of the Red Book of the Republic of Azerbaijan.

It has been determined that the primary reason for species extinction is the combined effect of climate factors and anthropogenic factors. For this, distribution areas should be under special control and natural populations be protected. It is necessary to increase the attention to the support of natural regeneration and the protection of existing trees.